

Qy	14	AGCTCTTCAAAATGTCGCCGCTGTGAATACTGGTCTAAACACTCTGTTCAGAACTG	200
Db	110	ATATCTCTTCAAACTGTCGCCGATGTGAATATCAAGTCTAATATCTCTGTTCAGAACTG	169
Qy	201	TTCTGAGGTACTATTGTTCAGAGCGCCTTCGAAATCCCCATATCTCAAGACAAATGTGA	266
Db	170	TCCCTTAGGTACATTGTTCAGAGCGCCTTCGAAATCCCCATATCTCAAGACAAATGTGA	229
Qy	261	GAAGTGTCAACCCAGGAACATTCACAGAGAAAGAAATTAATCTGTGATGCTTGTATCTTGG	320
Db	230	GAAAGTGTCAACCCAGGAACATTCACAGAGAAAGAAATTAATGAGCTCATGATATGTGAACCTTGG	289
Qy	321	CTTCAACTGTGATTAAGATCAGAAATAGTGGGCCGATCTGTTCTTGAAGCAACCTTATACCTTAA	390

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Qy

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Key

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1160 GGCAATCCTGGTATCAAGGTCAAAAGAACTCAGATGAATGGTCACATGGTTCCTA 1219
|||||
1094 GGCAAGTCCCTGGTATCAAGGTCAAAAGAACTCAGATGAATGGTCACATGGTTCCTA 1219
|||||

CC The invention relates to transmembrane decoy-receptor (tmst2) proteins
CC and their secreted splice variants, belonging to the tumour necrosis
CC factor (TNF) receptor super gene family and polynucleotides encoding such
CC proteins. The composition and methods are useful in diagnosing, treating
CC and/or ameliorating diseases associated with or resulting from abnormal tmst2
CC and/or abnormal expression of its putative ligand, such as sepsis,
CC cachexia, autoimmune diseases, inflammatory diseases, viral, bacterial
CC and parasitic diseases or cancer. They may also be used for chromosome
CC identification or mapping. The invention is useful in gene therapy. The
CC exemplification of the invention
XX Sequence 133 AA:

Query Match 68.8%; Score 748; DB 7; Length 133;
Best Local Similarity 100.0%; Pred. No. 5.9e-54;
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MEGFCSIVSSLSRWFMRRLILLLILNLPLQVKEAMLEHSFKCPAGEWSDVCC 60
DB 1 MEGFCSIVSSLSRWFMRRLILLLILNLPLQVKEAMLEHSFKCPAGEWSDVCC 60
QY 61 KNCAGTFVAKPCIEIPHTGQCEKCHPFTFKDNYLDACILCTCDQDQEMVADCSATS 120
DB 61 KNCAGTFVAKPCIEIPHTGQCEKCHPFTFKDNYLDACILCTCDQDQEMVADCSATS 120
QY 121 DRKCCRTGLYYY 133
DB 121 DRKCCRTGLYYY 133

RESULT 8
ADJ45750
ID ADJ45750 standard; protein; 133 AA.

DT 06-MAY-2004 (first entry)

DE Murine tmst2 00004-d1 polypeptide.

XX Mouse; tmst2-receptor; tmst2 00004-d1;
XX acquired immunodeficiency syndrome; AIDS; anaemia; autoimmune disease;
XX cachexia; cancer; cerebral malaria; diabetes mellitus;
XX disseminated intravascular coagulation; haemorrhagic shock; hepatitis;
XX insulin resistance; leprosy; leukaemia; lymphoma; meningitis;
XX multiple sclerosis; ischaemia; obesity; organ rejection;
XX rheumatoid arthritis; septic shock; stroke;
XX adult respiratory distress syndrome; ARDS; tuberculosis; viral disease;
XX receptor.

OS Mus musculus.

PN US2004018544-A1.

PD 29-JAN-2004.

PF 17-JUL-2003; 2003US-00622407.

PR 09-JUL-1999; 99US-0143063P.

PR 07-JUL-2000; 2000US-00612033.

PA (SARI/) SARIS C.

PI Saris C;

DR MPI: 2004-224390/21.

DR N-PSDB; ADJ45749.

XX Novel tmst2-receptor polypeptide useful for diagnosing and treating
XX disease e.g., autoimmune disease, cachexia, cancer or viral, bacterial
XX infections.

PS Example 1; SEQ ID NO 6; 57bp; English.

CC The invention relates to a tmst2-receptor polypeptides and the
CC polynucleotide encoding them. The sequences of the invention are useful
CC for treating diseases and conditions including acquired immunodeficiency
CC syndrome (AIDS), anaemia, autoimmune diseases, cachexia, cancer, cerebral
CC malaria, diabetes mellitus, disseminated intravascular coagulation,
CC haemorrhagic shock, hepatitis, insulin resistance, leprosy, leukaemia,
CC lymphoma, meningitis, multiple sclerosis, ischaemia, obesity, organ
CC rejection, rheumatoid arthritis, septic shock, stroke, adult respiratory
CC distress syndrome (ARDS), tuberculosis and a number of viral diseases.
CC This sequence represents a murine tmst2-receptor polypeptide clone of the
XX invention.

XX Sequence 133 AA;

Query Match 68.8%; Score 748; DB 8; Length 133;
Best Local Similarity 100.0%; Pred. No. 5.9e-54;
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MEGFCSIVSSLSRWFMRRLILLLILNLPLQVKEAMLEHSFKCPAGEWSDVCC 60
DB 1 MEGFCSIVSSLSRWFMRRLILLLILNLPLQVKEAMLEHSFKCPAGEWSDVCC 60
QY 61 KNCAGTFVAKPCIEIPHTGQCEKCHPFTFKDNYLDACILCTCDQDQEMVADCSATS 120
DB 61 KNCAGTFVAKPCIEIPHTGQCEKCHPFTFKDNYLDACILCTCDQDQEMVADCSATS 120
QY 121 DRKCCRTGLYYY 133
DB 121 DRKCCRTGLYYY 133

RESULT 9
AAW80254
ID AAW80254 standard; protein; 176 AA.

XX AAW80254;

DT 28-JAN-1999 (first entry)

DE Amino acid sequence of protein 7F4.

XX Protein. 7F4; differentiation; osteoblast cell; bone growth; bone sarcoma.
XX Undifferentiated.

OS Undifferentiated.

FT Key Location/Qualifiers

FT Peptide 1..28

FT Protein /note= "signal peptide"

FT /note= "mature protein"

PN W09843998-A1.

PD 08-OCT-1998.

PF 01-APR-1998; 98WO-JP001511.

PR 01-APR-1997; 97JP-00099653.

PA (CHUG-) CHUGAI RES INST MOLECULAR MEDICINE INC.

PI Kimura N, Toyoshima T;

DR MPI: 1998-568275/48.

DR N-PSDB; AAW8046.

XX Receptor protein inducing differentiation in osteoblast cells - has
XX extracellular region only and can be used for screening substances for
XX treatment of bone growth disorders.
XX Claim 1; Page 23-31; Sipp; Japanese.

XX The present sequence represents a protein designated 7F4. This protein is
 CC capable of inducing differentiation in osteoblast cells. The protein may
 CC be used to screen compounds for the ability to bind to it, for use as
 CC ligands, agonists or antagonists and inhibiting or otherwise altering its
 CC differentiation inducing activity. Compounds so identified, as well as
 CC the protein itself, DNA encoding it, and antibodies to it, may be used in
 CC the treatment of diseases of bone growth and osteoblast differentiation,
 CC such as bone sarcomas

XX Sequence 176 AA;

Query Match 68.7%; Score 746.5; DB 2; Length 176;
 Best Local Similarity 75.1%; Pred. No. 1e-53;
 Matches 142; Conservative 8; Mismatches 22; Indels 17; Gaps 2;

QY 7 SLVSSLSRWFLMRLLLLLLLLLLPLQVRFAMLEHSFKCPAGRYMSKDVCCNCSAG 66
 DB 5 SHVSSLSHMF-----LLLLLLNLPVYIFAMPESSYFNCPEGYQNDVCCCKCPG 56
 QY 67 TFVKAPEIPIHTQGQCEKCHPFTTEKONYLDACILGCTGDKOEMVADCSATSDRKCQC 126
 DB 57 TFVKAPEIPIHTQGQCEKCHPFTTGKONGHDCGLGCTGDKOEMVADCSATSDRKCQC 116
 QY 127 RTGLYYNDPKPESCRPCTKCPGIGIPVLOECNSTANTVCCSSSVSNPRNRLFTLLSPLSVL 186
 DB 117 QIGLYTYIDPKPESCRPCTKCPGIGIPVLOECNSTANTVCCSSSVSNPRNRLFTLLSPLSVL 170
 QY 187 IVSVVVFRI 195
 DB 171 ---LIVFCI 176

RESULT 10

ADFS7551
 ID ADFS7551 standard; protein; 176 AA.

XX ADFS7551;

DT 12-FEB-2004 (first entry)

XX Mouse ymkz5 receptor.

XX Transmembrane decoy receptor; ymkz5; tumour necrosis factor; TNF; tumour;
 KM cancer; acquired immune deficiency syndrome; AIDS; anaemia;
 KM autoimmune disease; cachexia; leprosy; leukaemia; hepatitis;
 KM multiple sclerosis; myocardial ischaemia; obesity; gene therapy; mouse;
 receptor.

XX Mus musculus.

PN US2003096355-A1.

XX 22-MAY-2003.

PF 11-JUL-2002; 2002US-00193616.

PR 09-JUL-1999; 99US-0143137P.

PR 07-JUL-2000; 2000US-00611989.

PA (ZHANG/) ZHANG K.

PI Zhang K;

DR WPI; 2004-008943/01.

DR N-PSDB; ADFS7550.

XX Novel ymkz5-receptor polypeptide useful for treating diseases such as
 PT tumor, cancer, AIDS, anemia, autoimmune diseases, cachexia, leprosy,
 PT leukemia, hepatitis, multiple sclerosis.

PS Claim 13; SEQ ID NO 8; 57pp; English.

CC The invention relates to transmembrane decoy receptor, ymkz5 belonging to
 CC tumour necrosis factor (TNF) receptor supergene family and nucleic acid
 CC sequences encoding such receptors. The invention is useful for detecting
 CC diseases or susceptibility to diseases related to the presence of mutated
 CC ymkz5-receptor gene such as tumours or cancers. The sequences of the
 CC invention are used as medication for a number of diseases such as
 CC acquired immune deficiency syndrome (AIDS), anaemia, autoimmune diseases,
 CC cachexia, leprosy, leukaemia, hepatitis, multiple sclerosis, myocardial
 CC ischaemia, obesity etc. The invention is also useful in gene therapy. The
 CC present sequence is mouse ymkz5 receptor protein.

XX Sequence 176 AA;

Query Match 68.7%; Score 746.5; DB 8; Length 176;
 Best Local Similarity 75.1%; Pred. No. 1e-53;
 Matches 142; Conservative 8; Mismatches 22; Indels 17; Gaps 2;

QY 7 SLVSSLSRWFLMRLLLLLLLLPLQVRFAMLEHSFKCPAGRYMSKDVCCNCSAG 66
 DB 5 SHVSSLSHMF-----LLLLLLNLPVYIFAMPESSYFNCPEGYQNDVCCCKCPG 56
 QY 67 TFVKAPEIPIHTQGQCEKCHPFTTEKONYLDACILGCTGDKOEMVADCSATSDRKCQC 126
 DB 57 TFVKAPEIPIHTQGQCEKCHPFTTGKONGHDCGLGCTGDKOEMVADCSATSDRKCQC 116
 QY 127 RTGLYYNDPKPESCRPCTKCPGIGIPVLOECNSTANTVCCSSSVSNPRNRLFTLLSPLSVL 186
 DB 117 QIGLYTYIDPKPESCRPCTKCPGIGIPVLOECNSTANTVCCSSSVSNPRNRLFTLLSPLSVL 170
 QY 187 IVSVVVFRI 195
 DB 171 ---LIVFCI 176

RESULT 11

ADMA6623
 ID ADMA6623 standard; protein; 176 AA.

XX ADMA6623;

DT 17-JUN-2004 (first entry)

XX Mouse 7F4 protein.

XX 7F4 gene; Osteopathic; Anorectic; Antidiabetic;
 KM glycolipid metabolism disorder; osteoporosis; obesity; diabetes.
 KM

XX Mus musculus.

PN WO2004026026-A1.

XX 01-APR-2004.

PF 10-SEP-2003; 2003WO-JP011545.

PR 17-SEP-2002; 2002JP-00270321.

PA (CHUS) CHUGAI SEIYAKU KK.

PI Kake T, Saito H, Makishima F;

DR WPI; 2004-340227/31.

DR N-PSDB; ADMA6622.

XX Transgenic non-human animal with modified expression of 7F4 gene for
 PT screening remedies for bone or glycolipid metabolism disorders.
 PT

PS Claim 3; SEQ ID NO 2; 44p; Japanese.

XX The present invention relates to a transgenic non-human animal having the
 CC expression of 7F4 gene artificially modified. The transgenic animals are
 CC a disease model for bone and glycolipid metabolism disorders. Substances
 CC identified by the screening method are agents for the prevention and

FT	CDS	12..542	
FT	sig_peptide	/*tag= a	
FT		12..95	
FT	mat_peptide	/*tag= b	
FT		96..539	
FT		/*tag= c	
FN	WO9843998-A1.		
PD			
PD	08-OCT-1998.		
XX			
XX	01-APR-1998;	98WO-JP001511.	
XX			
XX	01-APR-1997;	97JP-00099653.	
PR			
XX			
XX	(CHUG-) CHUGAI RES INST MOLECULAR MEDICINE INC.		
PA			
XX	Kimura N, Toyoshima T;		
PI			
XX	WPI; 1998-568275/48.		
DR	P-PSDB; AAW80254.		
XX			
XX	Receptor protein inducing differentiation in osteoblast cells - has		
PT	extracellular region only and can be used for screening substances for		
PT	treatment of bone growth disorders.		
XX			
XX	Claim 2; Page 29-31; 51pp; Japanese.		
PS			
XX			
CC	The present sequence encodes a protein designated 7P4. This protein is		
CC	capable of inducing differentiation in osteoblast cells. The protein may		
CC	be used to screen compounds for the ability to bind to it, for use as		
CC	ligands, agonists or antagonists and inhibiting or otherwise altering its		
CC	differentiation inducing activity. Compounds so identified, as well as		
CC	the protein itself, DNA encoding it, and antibodies to it, may be used in		
CC	the treatment of diseases of bone growth and osteoblast differentiation,		
CC	such as bone sarcomas		
XX			
XX	Sequence 1509 BP; 387 A; 403 C; 294 G; 425 T; 0 U; 0 Other;		
SQ			
	Query Match	53.8%; Score 377.4; DB 2; Length 1509;	
	Best Local Similarity	90.7%; Pred. No. 3.4e-98;	
	Matches 402; Conservative	0; Mismatches 41; Indels 0; Gaps 0	
QY	81 GCTGCTGCTGCTGCTGCTGCTGAATCTGCCCTTGACAGTAAATTGCTAGTCAATT	140	
DB	50 GTTCCTCTTGCTGCTGCTGCTGAATCTGTTCTTGCCGTAATATTGCTAGTCAATC	109	
QY	141 ACACTCCTTCAAAATGTCCTGCTGCTGAATCTGCTTAAAGACGTCTGTTGCAAGACTG	200	
DB	110 ATACTCCTTCAACTCTCCCGAATGAGTAATCAAGCTAATGATGCTGTTGCAAGACCTG	169	
QY	201 TTGTCAGAGTTCATTGTGCAAGAGCCCTCGGCAATATCCCTTACTCAAGAGCAATGCA	260	
DB	170 TCCCTCAAGTACATTGTGTAAGGCGCTCGCAAAATCCCTCACTCAAGAGCAATGTGA	229	
QY	261 GAAGTGTCAACCCAGGAACATTACAGAGAAAGATAATTACTGATGCTTGTATCTTTG	320	
DB	230 GAAGTGTCAACCCAGGAACATTACAGAGGAATAATATGCTCGATGATTTGTGAATTTG	289	
QY	321 CTCCACCTGTGATTAAGATCAAGAAATGGTGGCCGACTGTCAGCCACCAAGTACCGGA	380	
DB	290 CTCCACCTGTGATTAAGACAGAAATATGGTGTGCTACTGTTCTGACCAACAGTACCGGA	349	
QY	381 ATGCAAGGCGGGAAGAGCTTTTACTACTATATGACCAAAATTTTCCAGAAATCGTGCAGCC	440	
DB	350 ATGCAAGGCGCAAAATATGCTTTTACTACTATATGACCAAAATTTTCCGAATTCATGCCGCC	409	
QY	441 ATGTACCAAGTGTCCCAAGAAATCCGTCTCTCCAGAAATGCAACTCCACAGCTATAC	500	
DB	410 ATGTACCAAGTGTCCCAAGAAATCCGTCTCTCCAGAAATGCAACTCCACAGCTATAC	469	
QY	501 TGTGTGCACTTCACTTGTTTTCAA	523	

D	b		470	TCGTGCACTCATCTGTTTCAA	492
				RESULT 12	
				ADM46622	
I	d			ADM46622 standard; DNA; 1509 BP.	
X	x				
A	c			ADM46622;	
X	x				
D	t			17-JUN-2004 (first entry)	
X	x				
M	o			Mouse 7F4 encoding sequence.	
X	x				
K	w			7F4 gene; Osteopathic; Anorectic; Antidiabetic; glycolipid metabolism disorder; osteoporosis; obesity; diabetes; ds.	
O	s				
M	u			Mus musculus.	
P	h				
F	t			Key Location/Qualifiers	
C	d			12..542	
F	t			/tag= a	
F	t			/product= "7F4"	
P	n			WO2004026026-A1.	
X	x				
P	d			01-APR-2004.	
P	f			10-SEP-2003; 2003WO-JP011545.	
P	r			17-SEP-2002; 2002JP-00270321.	
X	x			(CHUS) CHUGAI SEIYAKU KK.	
P	a				
P	i			Take T, Satou H, Makishima F;	
X	x			WPI; 2004-340227/31.	
D	r			P-PSDB; ADM46623.	
P	t			Transgenic non-human animal with modified expression of 7F4 gene for screening remedies for bone or glycolipid metabolism disorders.	
X	x				
P	s			Claim 3; SEQ ID NO 1; 44pp; Japanese.	
X	x				
C	c			The present invention relates to a transgenic non-human animal having the expression of 7F4 gene artificially modified. The transgenic animals are a disease model for bone and glycolipid metabolism disorders. Substances identified by the screening method are agents for the prevention and treatment of diseases including osteoporosis, obesity and diabetes. The present sequence represents the modified mouse 7F4 encoding sequence.	
S	q			Sequence 1509 BP; 387 A; 403 C; 294 G; 425 T; 0 U; 0 Other;	
				Query Match 53.8%; Score 377.4; DB 12; Length 1509;	
				Best Local Similarity 90.7%; Pred. No. 3.4e-98;	
				Matches 402; Conservative 0; Mismatches 41; Indels 0; Gaps 0	
G	y			81 GCTGCTGCTGTCGTCGTCGTAATCTGCCCTTGACGGTAATAATTGCTAGTGAATT 140	
D	b			50 GTTCCCTCTGCTGCTGCTGCGAATCTGTTCTTGCGCGTAATATTGCTATGCTGAATC 109	
G	y			141 ACACTCTCTTCAAAATGTCGCCGCTGTAATACTGCTTAAAGACTGTGTGCAAGAATG 200	
D	b			110 ATATCTCTTCAACTGTCGCCGATGTAATACAAGTCTAATATGTCGTGCAAGACTG 169	
G	y			201 TTCTGCAGGTACATTTGTGCAAGCGCCCTGCGAAAATCCCCACTCAAGCAATGTGA 260	
D	b			170 TTCCTCAGGTACATTTGTGCAAGCGCCCTGCGAAAATCCCCACTCAAGCAATGTGA 229	
G	y			261 GAACTGTCACCACCAAGAACATTCACAGAGAAAGATTAATACCTGATGCTGTATCTTGG 320	
D	b			230 GAAGTGTACCCCAAGAACATTCACAGAGAAAGATTAATGAGCTGCAAGATGTGAATCTTGG 289	
G	y			321 CTCACCTGTGATTAAGTACAGAAATGTTGCGGACTGCTACAGCACCAAGTACCGAGA 380	

QY 127 RTGLYYDPKFPESCRPCTKCPQGI PVLQBCNSTANTVCS SSVS 170

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RESULT 14
ABG09344
ID      ABG09344 standard; protein; 380 AA

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XX	13-FEB-2002 (first entry)
DT	
XX	
DE	Novel human diagnostic protein #9335